

Title (en)

NON-CONTACT POWER SUPPLY SYSTEM, NON-CONTACT POWER SUPPLY DEVICE, AND POWER SUPPLY TARGET DEVICE

Title (de)

KONTAKTLOSE STROMVERSORGUNGSSYSTEM, KONTAKTLOSE STROMVERSORGUNGSVORRICHTUNG UND STROMVERSORGUNGSZIELVORRICHTUNG

Title (fr)

SYSTÈME AINSI QUE DISPOSITIF D'ALIMENTATION ÉLECTRIQUE SANS CONTACT, ET DISPOSITIF FAISANT L'OBJET DE CETTE ALIMENTATION ÉLECTRIQUE

Publication

EP 2852027 A1 20150325 (EN)

Application

EP 13791010 A 20130304

Priority

- JP 2012114402 A 20120518
- JP 2013001299 W 20130304

Abstract (en)

With a non-contact power supply system, a non-contact power supply device, and power supply target device of the present invention, power is supplied from a power supply coil of the non-contact power supply device to a power receiving coil of the power supply target device by non-contact power supply utilizing magnetic interaction. During the non-contact power supply, first, a power supply coil exhibiting a first interaction stronger than a predetermined reference interaction is selected as a candidate excitation coil, and a high-frequency voltage is supplied to the power supply coil of the candidate excitation coil. Second, a power supply coil exhibiting a second interaction weaker than the reference interaction and power supply coils adjacent to this power supply coil are selected as candidate excitation coils, and the high-frequency voltage is supplied to the power supply coils of these candidate excitation coils.

IPC 8 full level

H01F 38/14 (2006.01); **H02J 5/00** (2006.01)

CPC (source: CN EP US)

H01F 38/14 (2013.01 - EP US); **H02J 5/005** (2023.08 - CN); **H02J 50/10** (2016.02 - EP US); **H02J 50/402** (2020.01 - EP US); **H02J 50/80** (2016.02 - EP US); **H02J 50/90** (2016.02 - US); **H02J 50/60** (2016.02 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2852027 A1 20150325; **EP 2852027 A4 20150603**; **EP 2852027 B1 20210127**; CN 104285357 A 20150114; JP 2013243814 A 20131205; JP 5948676 B2 20160706; TW 201349703 A 20131201; TW I452794 B 20140911; US 2015097440 A1 20150409; US 9735626 B2 20170815; WO 2013171943 A1 20131121

DOCDB simple family (application)

EP 13791010 A 20130304; CN 201380024908 A 20130304; JP 2012114402 A 20120518; JP 2013001299 W 20130304; TW 102108372 A 20130308; US 201314400184 A 20130304